Response to non-final Office Action dated July 20, 2010

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claim 1 (currently amended): A composition comprising: leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof in free and/or salt form, wherein said leucine, in free and/or salt form, is present in an amount of at least 30% to about 95% by weight based on the weight of total amino acids and wherein said composition provides a ratio of total essential amino acids to total amino acids ranging from about 0.60 to about 0.90.

Claim 2 (currently amended): A composition comprising: leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof in free and/or salt form, wherein total leucine is present in an amount of at least 30% to about 35% by weight based on the weight of total amino acids and wherein said composition provides a ratio of total essential amino acids to total amino acids ranging from about 0.60 to about 0.90.

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Claim 3 (currently amended): A composition comprising:

a) leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid in free form and/or salt form selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof and, optionally, at least one conditionally essential amino acid selected from the group consisting of tyrosine, cysteine, arginine, glutamine, and combinations thereof in free form and/or salt form, and

b) at least one intact protein selected from the group consisting of casein, whey protein, soy protein, collagen, wheat protein, and combinations thereof, wherein said composition provides a ratio of total essential amino acids and, optionally, conditionally essential amino acids to total amino acids ranging from about 0.60 to about 0.90 and wherein said leucine, in free and/or salt form, is present in an amount of at least 30% by weight based on the weight of intact protein, wherein the ratio of leucine in free and/or salt form to leucine in form of the intact protein is about 3:1 to about 1:3.

Claim 4 (currently amended): The composition of claim 3, wherein the essential amino acid comprises leucine and at least one of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, or histidine.

Claim 5 (cancelled):

Claim 6 (withdrawn): The composition of claim 3, further comprising arginine, in free and/or salt form, in an amount of at least about 5% to about 40% by weight based on the weight of total amino acids.

Claim 7 (previously presented): The composition of claim 3, further comprising methionine in free and/or salt form in an amount of at least about 0.5% to about 5% by weight based on the weight of total amino acids.

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Claim 8 (original): The composition of claim 3, further comprising an n-3 polyunsaturated fatty acid.

Claim 9 (previously presented): The composition of claim 8, wherein the n-3 polyunsaturated fatty acid is selected from the group consisting of u-linolenic acid, eicosapentaenoic acid, docosahexaenoic acid, and combinations thereof.

Claim 10 (previously presented): The composition of claim 3, further comprising at least about 1 g of eicosapentaenoic acid per serving or at least about 2 g of eicosapentaenoic acid per dose.

Claim 11 (original): The composition of claim 3, further comprising tocopherol.

Claim 12 (withdrawn): The composition of claim 3, further comprising tocotrienol.

Claim 13 (previously presented): The composition of claim 11, wherein the tocopherol is present in an amount about 50 mg per serving or at least 150 mg per dose.

Claim 14 (previously presented): The composition of claim 3, comprising from about 15 g to about 55 g amino acids in free and/or salt form per dose.

Claim 15 (cancelled):

Claim 16 (previously presented): The composition of claim 3, comprising from about 36 g to about 72 g total essential and/or conditionally essential amino acids per serving.

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Claim 17 (currently amended): A kit comprising:

## a) a first composition comprising:

I) leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid in free form and/or salt form selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof and, optionally, at least one conditionally essential amino acid selected from the group consisting of tyrosine, cysteine, arginine and glutamine in free form and/or salt form, and

2) at least one intact protein selected from the group consisting of casein, whey protein, soy protein, collagen, wheat protein, and combinations thereof, wherein said composition provides a ratio of total essential amino acids and, optionally, conditionally essential amino acids to total amino acids ranging from about 0.60 to about 0.90 and wherein said leucine, in free and/or salt form, is present in an amount of at least 30% by weight based on the weight of intact protein, wherein the ratio of leucine in free and/or salt form to leucine in form of the intact protein is about 3:1 to about 1:3; and

b) a second composition comprising an anti-cancer drug, wherein said anticancer drug is selected from the group consisting of 5-fluorouracil, mitomycin-C, adriamycin, chloroethyl nitrosureas, methotrexate, and combinations thereof.

Claim 18 (withdrawn, previously presented): A method of ameliorating a condition associated with cachexia and/or anorexia comprising:

administering to a human in need of such amelioration a composition selected from the group consisting of those composition as claimed in claims 1, 2, 3, 4, 7, 8, 9, 10, 11, 13, 14, 16, and 23-27.

Claim 19 (withdrawn): The method of claim 18, wherein the condition is tumor-induced weight loss or muscle loss.

Claim 20 (withdrawn): The method of claim 18, wherein the administering step is enteral.

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Claim 21 (withdrawn, previously presented): A method of stimulating muscle protein synthesis comprising:

administering to a human in need of such stimulation a composition selected from the group consisting of those composition as claimed in claims 1, 2, 3, 4, 7, 8, 9, 10, 11, 13, 14, 16, and 23-27.

Claim 22 (withdrawn, previously presented): A method of reducing malnutrition comprising:

administering to a human in need of such reduction a composition selected from the group consisting of those composition as claimed in claims 1, 2, 3, 4, 7, 8, 9, 10, 11, 13, 14, 16, and 23-27.

Claim 23 (currently amended): A composition consisting essentially of: leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof in free and/or salt form, wherein leucine, in free and/or salt form, is present in an amount of at least 30% by weight based on the weight of total amino acids.

Claim 24 (currently amended): A composition consisting essentially of: leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof in free and/or salt form, wherein total leucine is present in an amount of at least 30% by weight based on the weight of total amino acids.

Claim 25 (currently amended): A composition consisting essentially of:

a) leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof and, optionally, at least one conditionally essential amino acid selected from the group consisting of tyrosine, cysteine, arginine, glutamine, and combinations thereof in free form and/or salt form, wherein said leucine, in free and/or salt form, is present in an amount of at least 30%, and

b) at least one intact protein selected from the group consisting of casein, whey protein, soy protein, collagen, wheat protein, and combinations thereof, wherein said composition provides a ratio of total essential amino acids and, optionally, conditionally essential amino acids, to total amino acids ranging from about 0.60 to about 0.90, wherein the ratio of leucine in free and/or salt form to leucine in form of the intact protein is about 3:1 to about 1:3.

Claim 26 (previously presented): The composition of claim 3, comprising from about 12 g to about 15 g leucine in free and/or salt form per dose.

Claim 27 (previously presented): The composition of claim 3, further comprising methionine in free and/or salt form in an amount of at least about 5% to about 7% by weight based on the weight of total amino acids.

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## Claim 28 (currently amended): A kit comprising:

- a) a first composition consisting essentially of:
- I) leucine, valine in an amount of about 8% to about 10% by weight based on the weight of total amino acids, and at least one essential amino acid in free form and/or salt form selected from the group consisting of isoleucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine, histidine, and combinations thereof, and, optionally, at least one conditionally essential amino acid selected from the group consisting of tyrosine, cysteine, arginine, glutamine, and combinations thereof, in free form and/or salt form, wherein said leucine, in free and/or salt form, is present in an amount of at least 30%, and
- 2) at least one intact protein selected from the group consisting of casein, whey protein, soy protein, collagen, wheat protein, and combinations thereof, wherein said composition provides a ratio of total essential amino acids and, optionally, conditionally essential amino acids to total amino acids ranging from about 0.60 to about 0.90, wherein the ratio of leucine in free and/or salt form to leucine in form of the intact protein is about 3:1 to about 1:3; and
- b) a second composition comprising an anti-cancer drug, wherein said anticancer drug is selected from the group consisting of 5-fluorouracil, mitomycin-C, adriamycin, chloroethyl nitrosureas, methotrexate, and combinations thereof.

Claim 29 (cancelled):